

Applicants : Petar R. Dvornic et al.
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In the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Canceled).

2. (Currently Amended) The composition of claim [[1]] 35, wherein the hyperbranched polymer has a weight average molecular weight from about 1000 to about 25,000.

3.-5. (Canceled).

6.-11. (Canceled)

12. (Currently Amended) The composition of claim [[1]] 35, wherein the hyperbranched polymer is selected from the group consisting of hyperbranched polyureas, hyperbranched polyurethanes, hyperbranched polyamidoamines, hyperbranched polyamides, hyperbranched polyesters, hyperbranched polycarbosilanes, hyperbranched polycarbosiloxanes, hyperbranched polycarbosilazenes, hyperbranched polyethers, hyperbranched poly(ether ketones), hyperbranched poly(propyleneimine), hyperbranched polyalkylamines, or copolymers thereof.

13. (Canceled).

14. (Currently Amended) The cured reaction product of claim [[13]] 36, wherein the hyperbranched polymer has a weight average molecular weight from about 1000 to about 25,000.

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15.-17. (Canceled).

18.-23. (Canceled)

24. (Currently Amended) The cured reaction product of claim [[13]] 36, wherein the hyperbranched polymer is selected from the group consisting of hyperbranched polyureas, hyperbranched polyurethanes, hyperbranched polyamidoamines, hyperbranched polyamides, hyperbranched polyesters, hyperbranched polycarbosilanes, hyperbranched polycarbosiloxanes, hyperbranched polycarbosilazenes, hyperbranched polyethers, hyperbranched poly(ether ketones), hyperbranched poly(propyleneimine), hyperbranched polyalkylamines, or copolymers thereof.

25.-34. (Canceled)

35. (New) A curable composition comprising:

at least one hyperbranched polymer having a plurality of reactive functional groups of a first type;

a linear polymer having two terminal reactive functional groups of a second type that are reactive with the functional groups of the first type, the linear polymer being free of any other functional groups that are reactive with the functional groups of the first type; and

the composition being free of other compounds having functional groups that are reactive with the terminal reactive functional groups of the second type, whereby curing of the composition produces a cross-linked polymer network in which hyperbranched polymer moieties are linked to other hyperbranched polymer moieties solely by linear polymer moieties bonded to the hyperbranched polymer moieties at the terminals of the linear polymer moieties.

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36. (New) A cured reaction product comprising:

hyperbranched polymer moieties linked to each other solely by linear polymer moieties, the linear polymer moieties being linked to the hyperbranched polymer moieties solely at the terminals of the linear polymer moieties.